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Charts

#### Briefing of Civilian Consultants to the NSC Continental Defense Committee = 5 August 53

#### PART II - General Cabell

Gentlemen:

Mr. Dulles has presented the latest CIA estimate on the overall capabilities of the Soviet Union to wage war.

I shall discuss, first, Soviet capabilities for attacking the Continental US and I shall then describe the extent to which US intelligence is able to provide advance warning of a major Soviet military operation.

I understand that you have had an opportunity to read Special Estimate Number 36/1 which has just been published and which represents the coordinated views of the US intelligence community. As your may recall this estimate deals solely with Soviet gross capabilities for an attack on the continental US during the period mid-1953 to mid-1955. By "gross capabilities" we mean that the effect of US counter action \_\_\_\_\_\_

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against the invading force is not considered. You will recall, too, that SE-36/1 does not go into such questions as to whether the major Soviet atomic bombing effort would actually be directed against the US, or would, as the British believe, be directed at European targets, especially targets in the United Kingdom.

If you keep these guidelines in mind, I believe my remarks, which are largely a summary of SE-36/1, will be more meaningful.

As Mr. Dulles has indicated, the Soviet atomic energy program has been receiving, and will almost certainly continue to receive, the highest priority. But, as you well know, the existence of a Soviet stockpile of atomic weapons is, in itself, only one factor in the assessment of Soviet capabilities to attack the US. The other, and e important factor, is the Soviet ability to deliver such weapons on US targets. What is the present strength of the Soviet Long Range air arm? This element of the Soviet Air Force consists essentially of three Air Armies, one in the Far East and two in the Soviet Vinia.

These Air Armies constitute the strategic striking force

The TU-4, which was copied from the American B-29, is

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of the Car.

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the only Soviet bomber known to be in operational use which is capable of carrying atomic weapons to distant targets. We estimate that the USSR has approximately one thousand TU-4's now available for operational use.

The future strength and composition of the Soviet long range bomber force is difficult to estimate. There is evidence of the development of jet medium bombers; and there have been recent sightings of aircraft reportedly larger than the TU-4 type. These sightings, if confirmed as heavy bomber aircraft, would establish that at least experimental production has begun on heavy bombers.

Our estimates of the actual strength and composition of the Soviet long range comber force through 1955 are based on the assumption that the USSM will instrate series production of a jet reason between during this period, and that it began series production of a heavy comber in mid-1753.

bombers of which we estimate that the USSR will have 1,250 long range bombers of which was and the balance, TU-U'S.

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Approved For Release 2002/31/03-014-RDD7-R00890A000100070032-4 By mid-1955 we estimate they will have 1305 long range bombers, of which 50 well be jet medium bombers, 1,050 will be TU-4's and 200 be heavy bombers, and the balance. The TU-4, under normal operating conditions, is estimated to have a combat radius of 1,700 nautical miles and a combat range of 3,100 nautical miles with a 10,000 pound bomb load. Under eruise

ersion Could possibly have a radius of 2150

control conditions necessary to reach distant target areas, its N.M with a range of 4000 N.M. speed would be approximately 175 knots at an altitude of about 10,000 feet. Although there is no intelligence to indicate that it has done the USSR is considered expable of modifying the TU-4 to increase This modification would marketly reduce the plane's would defensive capabilities against interceptor attack, but incr combat range to 4,000 miles carrying a 10,000 pound bomb load. If possible that by mid-1955 the USSR may be able to thieve minor improvements in the merformants characteristics of the TU-4 There s no evidence, however, of Soviet development of the more powerful piston engines which would be essential to major improvement. It is

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more likely that the NISSE would devote its efforts to detelling an acrial residing capability for 10-4's and to the reation of a heavy

Although no intelligence is available concerning Soviet inflight refueling capabilities, refueling techniques do not impose serious technical problems, and the mas had access to US techniques and equipment. With one refueling of a stripped-down TU-4, its combat radius could be increased to approximately 3,000 nautical miles, and its range to 5,600 nautical miles.

As I indicated a moment ago, we believe that a jet medium bomber may be in operation some time in 1955. Such a bomber would have improved altitude and speed characteristics, but less range than a This aircraft have a combat radius of 1,500 and a combat range of 2,900 nautical miles carrying a 10,000 pound bomb load.

The prototype heavy bomber, assuming it is put in series production and equipped with a turbo-prop power plant, and have a combat radius of 3,420 nautical miles and a combat range of 6,600 nautical

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miles with a bomb load of 10,000 pounds. By miles with a bomb load

We have examined the Soviet strategic air force. Let us now turn to the bases from which Soviet bombers would attack. Three base areas, the Chukotski Peninsula in Northeast Siberia, the Kola Penintural in Northwest Union, sula in Northwest User, and Soviet and Soviet-controlled territory along the Baltic and in Eastern Germany, are the closest to the United States.

[NOTE: COVER FROM CHARTS]

Stripped down
Standard TU-4, without inflight refueling, on a two-way mission could

Lattle area.

not reach the United States. However, on a one-way mission it could

reach targets within an are drawn from San Diego to Lake Superior.

The stripped-down TU-4 on a two-way mission could reach Seattle without

inflight refueling, but on a one-way mission it could reach targets

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in all parts of the United States except Florida. From this base,

Fram the Chukotski	Peninsula, which
neaest to the US, the	strpped dam
TU-4 on 2 two-w	
could reach Seattle ;	on 2 one-way
missim it could reach	all parts of
The US except Flais	
Kula Peninsula a	
Corman and as st	
could reach the US	
Missions.	From the

Murmansk area, such a bombing mission could reach targets roughly

north and east of a line from Charleston, South Carolina, to southern

Oregon. From the Baltic area, stripped down TU-h's on one-way

missions sould attack targets north and east of a line drawn generally

yearl be attacked.

from Charleston, South Carolina, through Hontana. In the that

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With me dix-refueling, the Chukotski bases

It TU-4 Could return to the Chukotski bases

after operating against targets anywhere
in the US. One ziv-refueling would be

permit TU-40 greating from Kolz and

Baltic- East German bases to strike any US

target and return have

Fran the Chukotski bases, Somethery bombers, when produced could operate

against targets

located north and west of an arc drawn generally from central Texas

through central New York.

- From the Kolz

Leveld Sapproved For Release 208290 7763: CIA-RDF79R00890400070032-4- England

avez an two-way missions. With one

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refueling, the heavy bombers taking off from Chukotski could reach any target in the US and return; from the Kola or the Baltic agas, such aircraft with refuding the industrial nutherst and return to base.

Logistics problems are difficult in the Chukotski Peninsula, but

these could be minimized by advance stockpiling and use of the area

for staging bases only. There are no no known first of airfields

Capable of Jounehing TU-4 Suite from either the Chukotski ar Kola

in this areas which could be used for eactained operations, and we

It is possible, of course, that new airfields might have been built or Histing fields adepted to accomedate these aircress.

Moreover, the USSR has emphasized use of frozen

surfaces in the Arctic, which makes possible the wintertime use of airfields with a minimum of preparatory effort.

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The Baltic-East German area has adequate bases to support large numbers of medium bombers. However, a major disadvantage of this area from the Soviet point of view is that Great Circle routes to the United States pass over portions of Western Europe or Scandinavia, and any attempted air strike might be detected early enough to provide warning.

Over and above a weapons stockpile, allong range air arm, and bomber bases, there are other less obvious factors which must be taken into account when assessing Soviet strategic bombing capabilities.



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One such factor is the efficiency of the bomber crews. We have no evidence of Soviet crews receiving extensive training in long distance flying and navigation, is probable that a limited number of crews has been given sufficient training to permit an early attack against the US.

Targeting and bombing accuracy is another important factor that must be considered. The USSR is able to obtain the data necessary for identification of most targets in the US under visual and blindbombing conditions. It also possesses optical bombsights equivalent Soviet Union to US World War-II type models. ping its TU-4's with blind-bombing and navigation type radars. We have insufficient evidence to estimate with confidence the degree of accuracy which Soviet crews might actually achieve. we estimate that be

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The availability, abort rate, and replacement of Soviet aircraft

are other relevant considerations. We estimate that the could

have about 90 percent of its TU-4 strength operationally available

for an initial, deliberately-prepared surprise attack against the US.

However, the number actually sortied would depend upon many other factors.

Since most US target areas can be reached only by one-way seriallyrefueled missions, the abort rate would be extremely high. We estimate the abort
the rate to be between 20 and 25 percent without consideration for

interception and poor navigation, and with variations in either direction

according to such factors as season, weather, and extent of preparation. Mos appreciable reserves of TU-4's are believed available. TU-4 production is currently estimated at about 30 planes per month, a figure which could probably be increased slightly in the short run,

Another key factor is the ability to make accurate weather personals.

By 1955 we believe that the DESR will have achieved a short-period

weather prediction capability in at least the European ESSR of 85 percent

reliability as compared with the present reliability of 60 percent.

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This espability, plus extensive experience in meteorological research in the extreme northern letitudes, good weather reporting facilities in Siberia, availability of historical data on North American weather conditions, and access to purpose Month American Weather conditions and forecasts should hable the USSR to predict both route and target weather with responsible accuracy.

electronic warning equipment. We believe that the can now seriously disrupt long range radio communications between the continental US and its overseas facilities and that this capability will be increased over the next several years. The has probably produced sufficient electronic countermeasure devices to equip some TU-4 aircraft, although it is not known whether TU-4's have in fact been equipped with such equipment. The effectiveness of such devices against



Let me now sum up Soviet capabilities for an air offensive against the US. We believe that the war has the capability to reach all parts of the US and to attempt the delivery of its full stockpile of atomic weapons. However, even a stripped-down TU-4 could reach only the extreme northwestern corner on two-way missions without aerial refueling. Even with actual refueling and other range extension techniques, attack upon the strategic northeastern industrial area and upon most of the principal strategic bases almost certainly would involve the expenditure of the attacking aircraft and most of the crews on one-way missions. Until it has a heavy bomber available for operational use, the will not have the capability to reach most of the strategically important areas in the US on two-way missions.

The threat to the continental US is not confined to the Soviet

Wezpons

ability to deliver conventional and mass destruction by aircraft alone.

I shall now turn briefly to the capabilities which the USSR has to

deliver such weapons by means other than aircraft.

First let us consider guided missiles. We believe that the only weapons of this type presently available to the war are the V-1 and V-2 type weapons which were used operationally by the Germans in World War II. In a neither of these missiles is known to be in production. We do not believe that the the V-2 missiles will constitute a threat against the continental US during the next few years. however.

posed by the V-1 type missile hanched from submarines. Such a missile might

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The clandestine delivery of weapons of mass destruction is anotated.

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threat that must be assessed which could be smuggled into the US either as producing atomic weapons which could be smuggled into the US either as





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complete assemblies or as compenent parts. The assembled devices could be small enough to fit into the luggage compartment of an automobile. There are many forms of clandestine delivery. For example, assembled weapons could be dropped by apparently friendly aircraft, could be detenated in the hold of a ship, or could be sown as underwater mines. Although there are limits to the US ability physically detect such covert activities, the operation would nevertheless involve a considerable risk of being compromised because of its scope and complexity. We believe, therefore, that although clandestine attack with atomic weapons might occur against specially selected targets as a supplement to overt delivery by air, such an attack, on a scale comparable to that which might be delivered overtly by air, would probably be precluded by security considerations.

We assess the Soviet naval threat to the continental US to be of a law order. The only substantial threat of this kind is posed by the Soviet submarine force. In addition to its potential in connection with the delivery of mass destruction weapons, the submarine force could, at least in the initial phases of a conflict, inflict serious damage on US overseas communications and carry out offensive mining in the shipping approaches to principal US harbors. We believe that over the next few years, the submarine force will be colored and improved by the introduction of additional number of improve occasions petrol types, and the processive odernization of aristing open, and the possible adaptation of missing open and missing open and the possible adaptation of missing open and the possible adaptation open and the possible adaptation open and the possi

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NSC Briefing of 6 August



